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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

| | | | |
|---|-----------------------------|-------------------------------|--------------------------|
| Application Number | 09/734,847 | | |
| | Filing Date | December 12, 2000 | |
| | First Named Inventor | C. Frank Bennett | |
| | Art Unit | 1635 | |
| Examiner Name | Tracy Ann Vivimore | | |
| Total Number of Pages in This Submission | | Attorney Docket Number | ISIS0170-100 (ISPH-0524) |

ENCLOSURES (check all that apply)

| | | |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <ul style="list-style-type: none">- Table A- Statement Under 37 CFR 3.73(b)- executed Assignments (2)- Return Postcard |
| Remarks | | |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

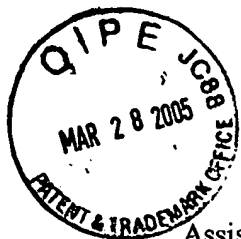
| | | | |
|---------------------|----------------------|-----------------|--------|
| Firm | Cozen O'Connor, P.C. | | |
| Signature | | | |
| Printed Name | Paul K. Legaard | | |
| Date | March 24, 2005 | Reg. No. | 38,534 |

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

| | | | |
|------------------------------|-----------------|-------------|----------------|
| Signature | | | |
| Typed or printed name | Paul K. Legaard | Date | March 24, 2005 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the applications identified in Table A attached hereto, and appoint

☒ Practitioners at Customer Number: 34138

PLACE CUSTOMER NUMBER BAR
CODE LABEL HERE

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for all applications identified in Table

A to:

☒ Practitioners at Customer Number: 34138

I am the:

☐ Applicant/Inventor.

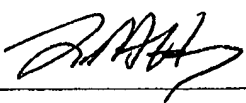
☒ Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date:

3/16/05

By:



Name: Laura A. Handley

Title: Vice President

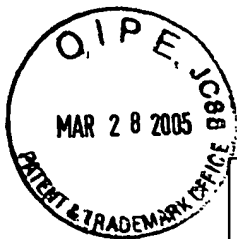


TABLE A

| SERIAL NO. | FILING DATE | INVENTORS | EXAMINER | ART UNIT | TITLE |
|------------|--------------------|--|---------------------|----------|--|
| 09/734,847 | December 12, 2000 | Bennett, Crooke, Manoharan, Wyatt, Baker, Monia, McKay, Karras | Tracy Ann Vivlemore | 1635 | Alteration Of Cellular Behavior By Antisense Modulation Of mRNA Processing |
| 10/686,317 | October 15, 2003 | Freier, Matveeva, Tsodikov, Giddings, Wyatt | Not yet determined | 1635 | Methods Of Obtaining Active Antisense Compounds |
| 09/938,048 | August 23, 2001 | Bennett, Borchers, Karras | Sean McGarry | 1635 | Use of Antisense Oligonucleotide Libraries For Identifying Gene Function |
| 10/673,063 | September 26, 2003 | Karras, Dobie | James Schultz | 1635 | Antisense Modulation Of MYD88 Expression |
| 10/765,500 | January 26, 2004 | Monia, Cowser | Not yet determined | 1635 | Antisense Modulation Of TRADD Expression |
| 10/467,182 | April 28, 2004 | Ward, Watt | Not yet determined | 1632 | Antisense Modulation Of WRN Expression |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, ISIS Pharmaceuticals, Inc., a corporation, states that it is:

☒ the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.


The extent (by, percentage) of its ownership interest is 100% in the patent applications identified in Table A by virtue of:

☒ a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date: 3/16/05

By: 

Name: Laura A. Handley
Title: Vice President

A S S I G N M E N T

WHEREAS, We, C. Frank Bennett, of Carlsbad, State of California; Stanley T. Crooke, of Carlsbad, State of California, Muthiah Manoharan, of Carlsbad, State of California, Jacqueline Wyatt, of Encinitas, State of California, Brenda F. Baker, of Carlsbad, State of California, Brett P. Monia of La Costa, State of California, Robert McKay of San Diego, State of California; and James G. Karras, of San Marcos, State of California, have invented a certain invention entitled Alteration of Cellular Behavior by Antisense Modulation of mRNA Processing, for which we have made application for Letters Patent of the United States, said application having been filed December 12, 2000 and assigned Application No. 09/734,847; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and

renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

DOCKET NO.: ISPH-0524

PATENT

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

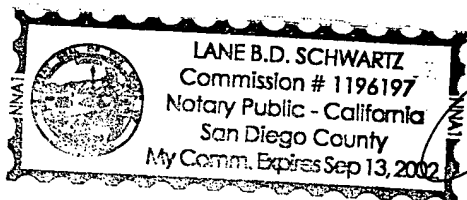
DATED: 2-15, 2001

C. Frank Bennett
C. FRANK BENNETT

State of California)
) ss.
County of San Diego)

On this 15th day of February, 2001, before me, the undersigned, a Notary Public for the state, personally appeared C. Frank Bennett, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.




Lane B.D. Schwartz
Signature of Notary

DOCKET NO.: ISPH-0524

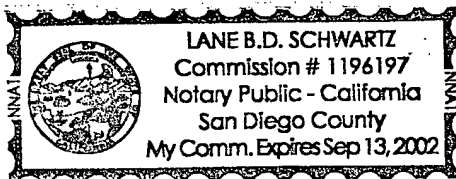
DATED: 2/10/01, 2001

PATENT

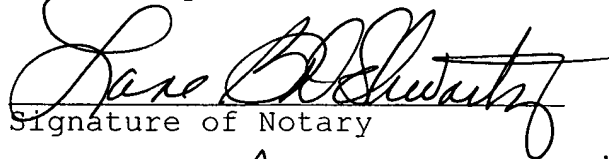

STANLEY T. CROOKE

State of California)
) ss.
County of San Diego)

On this 1st day of February, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Stanley T. Crooke, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

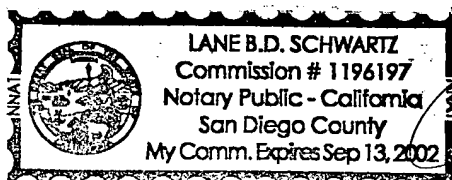

Signature of Notary

DATED: Feb 01, 2001

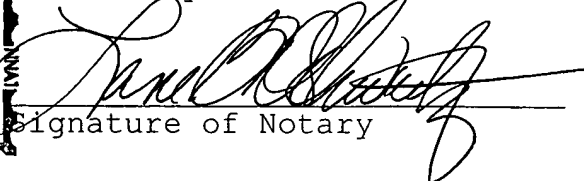

MUTHIAH MANOHARAN

State of California)
) ss.
County of San Diego)

On this 1st day of February, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Muthiah Manoharan, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.


Signature of Notary

DOCKET NO.: ISPH-0524

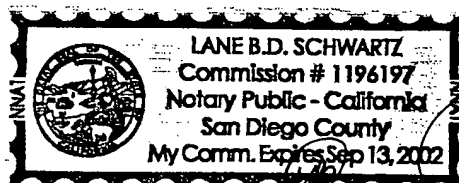
PATENT

DATED: 2/5/01, 2001

Jacqueline Wyatt
JACQUELINE WYATT

State of California)
County of San Diego) ss.

On this 5th day of February, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Jacqueline Wyatt, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

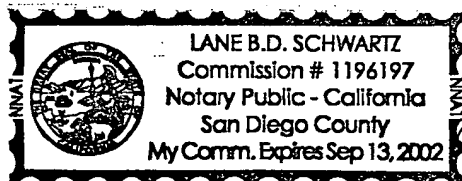
Lane B.D. Schwartz
Signature of Notary

DATED: 2/28, 2001

Brenda F. Baker
BRENDA F. BAKER

State of California)
County of San Diego) ss.

On this 18th day of February, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Brenda F. Baker, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

Lane B.D. Schwartz
Signature of Notary

DOCKET NO.: ISPH-0524

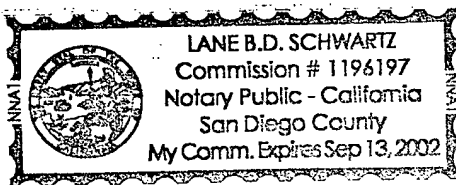
PATENT

DATED: 2/1, 2001

Brett P. Monia
BRETT P. MONIA

State of California)
County of San Diego) ss.

On this 1st day of February, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Brett P. Monia, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

[Signature]
Signature of Notary

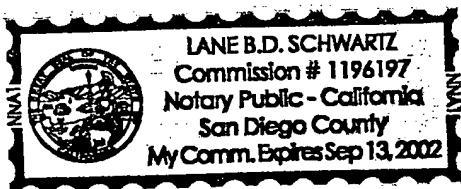
DATED: 2/13, 2001

Robert Mckay
ROBERT MCKAY

State of California)
County of San Diego) ss.

On this 13th day of February, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Robert McKay, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.



[Signature]
Signature of Notary

DOCKET NO.: ISPH-0524

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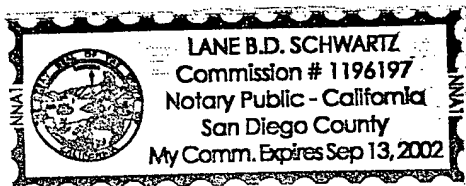
DATED: 1/31, 2001

James G. Karras
JAMES G. KARRAS

State of California)
County of San Diego) ss.

On this 31st day of January, 2001, before me, the undersigned, a Notary Public for the state, personally appeared James G. Karras, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.



[Signature]
Signature of Notary

A S S I G N M E N T

WHEREAS, I, Susan Freier, of San Diego, State of California, am a joint inventor and have invented a certain invention entitled Alteration of Cellular Behavior by Antisense Modulation of mRNA Processing, for which application for Letters Patent of the United States has been made, said application having been filed December 12, 2000 and assigned Application No. 09/734,847; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee,

to file in my name applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and I agree to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said

DOCKET NO.: ISPH-0524

PATENT

assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, I have hereunto set our hands and seals.

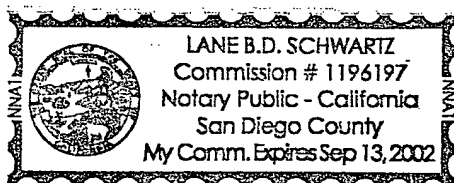
DATED: Sept 14, 2001

Susan Freier
Susan Freier

State of California)
) ss.
County of San Diego)

On this 14th day of September 2001, before me, the undersigned, a Notary Public for the state, personally appeared Susan Freier, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.



Lane B.D. Schwartz
Signature of Notary